

PROJECT SUMMARY

County: Amador

Applicant: Amador Water Agency

Project Title: Green Energy Water Conversion

PROJECT GOAL

Upon completion of the first phase of this project, the new gravity water transmission conveyance system would eliminate current energy demand of 2.2 – 2.3 million kilowatt hours or more annually from the state grid system. The new gravity water transmission conveyance system will improve water quality to local streams thus reducing adverse impacts to the ecosystems and watershed habitats by decreasing high turbidity from existing facilities, subsequent treatment and backwashing discharges. The project would also protect, secure and improve the reliability, health and safety of the source water conveyance system from natural disasters; provide new opportunities for fire suppression in commercial working forest landscapes and urban sprawl interface areas. Additionally the project would provide an educational “green energy” component as part of its public outreach and awareness conservation program.

PROJECT SCOPE

The Water Agency proposes to convert existing facilities with high energy use in the Central Amador Water Project (CAWP) and the Amador Water System (AWS) to a “Green Energy” efficient system while preserving and sustaining water resources. The project funds requested by SNC will complete pre-project due diligence:

- Support the completion of the Administrative Draft Project Description, Initial Study and Environmental Assessment which will serve as the basis of the technical analysis for the Final CEQA/NEPA document and establish the final project alignment;
- Prepare and complete final design and construction plans, specifications and right-of-way acquisition for a new 33,000± linear feet gravity transmission pipeline in east-central Amador County which will decrease energy demand;
- Provide outreach with Sierra Pacific Industries, US Bureau of Land Management, Pacific Gas and Electric and private property owners for easement acquisition together with CAL Fire and Amador County Fire Protection District for placement of fire hydrants in lieu of blow-offs at strategic locations and at road intersections along the pipeline alignment for new fire suppression opportunities; and
- Develop a “Green Energy” component as part of the Amador Water Agency’s Conservation program that will include this project’s energy conversion as a working solution to successful management of our natural resources decreasing dependency on electricity which decreases carbon emissions contributing to climate change.

Upon completion of the pre-project due diligence, the project will be ready to initiate final funding and construction of the gravity transmission water conveyance system. The proposed budget for the “*Green Energy Water Conversion*” project includes a funding request from the SNC for pre-project due diligence of \$500,000 and Water Agency share of \$163,052 towards the work to be completed under the SNC request. The Water Agency has previously committed \$530,179 for planning and pre-project due diligence, including CEQA/NEPA review and Petitions for Changes to appropriative Water Rights. Amador County, as part of its water development funds, has also previously committed \$85,000 towards the Petitions for Changes to appropriated Water Rights in support of this project. The total project planning and pre-project due diligence is \$1,278,231. The Water Agency has budgeted to complete the project due diligence together with an estimated \$11,670,200 for construction which is not being requested from Sierra Nevada Conservancy. The Agency is seeking funding sources to offset economic burdens already placed on low income communities.

The project will extend from the Tiger Creek Regulator Reservoir within the Tiger Creek watershed, tributary to the Upper Mokelumne River, to the Buckhorn Water Treatment Plant (BWTP) located 4.4 miles east of Pioneer. The BWTP provides potable water from just south of Pine Grove to Mace Meadows along the State

Route 88 corridor, 12.26 miles in length with varying widths and directly serves a population of over 9,000 through 3,510 connections. The project is the second stage of a capital improve program committed to the preservation and sustainability of our water resources and energy reduction. This stage will be completed in two phases, and this request is for the first phase of the project.

LETTERS OF SUPPORT

The Water Agency has received several letters of support included as Attachment E *Resolution supporting the Request of the Amador Water Agency (AWA) for Sierra Nevada Conservancy Grant Funds* from the Amador County Board of Supervisors; CAL-Fire / California Department of Forestry and Fire Protection; Amador County – Amador Fire Protection District; California State Senator – Dave Cox; Rabb Park Community Services District;

SNC PROJECT DELIVERABLES AND SCHEDULE

DETAILED PROJECT DELIVERABLES	TIMELINE
INCLUDE SPECIFIC TASKS IDENTIFIED IN SCOPE AND ALL REPORTS, ETC.	ASSUME START DATE 60 DAYS AFTER SNC BOARD AUTHORIZATION
Environmental and Water Rights	
1. 20% Design Review	4/1/2009-7/31/2009
a. 6 month Progress Report to SNC	8/18/2009
2. 50% Design Review	7/1/2009–9/30/2009
a. 6 month Progress Report to SNC	10/13/09
3. 75% Design Review	9/1/2009–2/16/2010
a. 6 month Progress Report to SNC	2/16/2010
4. 100% Design Review	1/1/ 2010–3/31/ 2010
a. 6 month Progress Report to SNC	4/13/2010
5. Project Management – Quality Control & Reporting	3/15/2009–3/31/ 2010
6. Education and Outreach	3/15/09-3/31/2010
a. 6 month Progress Report to SNC	4/13/2010
Administration/Finance/Construction Financing Planning	3/15/09-3/31/2010
Please refer to Schedule – Table 1 for complete sub-tasks	

SNC PROJECT COSTS

PROJECT BUDGET CATEGORIES	TOTAL SNC FUNDING
INCLUDE COSTS FOR STAFF, TASKS, DELIVERABLES AND PROJECT PERFORMANCE MEASURES	\$
Environmental and Water Rights	\$0.00
1. 20% Design Review	\$136,285
2. 50% Design Review	\$100,676
3. 75% Design Review	\$ 35,280
4. 100% Design Review	\$104,308
5. Project Management – Quality Control & Reporting	\$ 35,058
6. Education and Outreach	\$ 10,242
Administration/Finance/Construction Financing Planning	\$ 78,151
SNC GRANT TOTAL	\$500,000